

Manoj Kumar Palakuri

Bengaluru, India

manojkumarpalakuri@gmail.com github.com/ManojkumarPalakuri

Education

Yenepoya University, Bengaluru, India

2023 – 2026

Bachelor of Computer Applications (BCA)

Specialization: Cyber Security & Cloud Computing

CGPA: 9.02/10

Relevant Coursework: Data Structures & Algorithms, Machine Learning, Cloud Computing, Network Security, Cryptography, Distributed Systems, Matrix Algebra

Experience

IBM – Data Encryption Tool Developer

Feb 2026 – Present

- Developing applied cryptography solution involving secure key management, algorithm selection, and encryption workflows
- Integrating encryption into real-world data pipelines, balancing security guarantees with system performance

TCS iON – Cloud & DevOps Intern

Nov 2025 – Feb 2026

- Designed and implemented automated CI/CD pipeline deploying applications to AWS EC2
- Eliminated manual deployment steps and resolved environment inconsistencies across development and production
- Configured AWS infrastructure including EC2, IAM roles, and security groups for reliable deployment

Corizo (Wipro Collaboration) – Cybersecurity Intern

Dec 2023 – Jan 2024

- Analyzed real-time network traffic and logs using Wireshark and Nmap to detect vulnerabilities and threats
- Conducted penetration testing and vulnerability assessments using Burp Suite
- Recommended remediation strategies improving application-level security

Projects

Yenepoya Student Hub

MERN Stack (React, Node.js, MongoDB)

Live Demo

- Designed and developed full-stack campus platform supporting multiple student services
- Implemented JWT-based authentication, OTP email verification, and real-time notifications
- Built advanced features including QR-based virtual student ID, role-based workflows, and admin approval systems
- Engineered secure APIs, state management, and deployed application on Vercel

ALLCRYPT – Encryption Tool

MERN Stack

- Developed encryption system implementing modern cryptographic techniques and secure key derivation
- Built end-to-end encryption pipelines ensuring secure data transmission

Secure RESTful Authentication API

Node.js, Express, MongoDB

- Architected high-performance secure API using JWT authentication and Argon2id hashing
- Protected 1,000+ user accounts with secure authentication mechanisms
- Prevented SQL injection and XSS attacks through strict validation and secure route handling

Research

A Hybrid Blockchain Attendance System Using Off-Chain Storage and On-Chain Verification

Mar 2026

INCON-SDG 2026 International Conference

- Designed hybrid blockchain architecture combining on-chain verification with off-chain storage to address scalability
- Analyzed trade-offs between distributed trust, data integrity, and system performance

Languages

English (Fluent) • Telugu (Native) • Hindi (Proficient)

Technical Skills

Languages: JavaScript, Python, HTML, CSS

Frameworks & Libraries: React, Node.js, Express

Databases: MongoDB, MySQL

Cloud & DevOps: AWS (EC2, IAM), CI/CD, Vercel

Security: Wireshark, Nmap, Burp Suite, JWT, Argon2id, SSL/TLS

Tools: Git, GitHub

Leadership & Volunteering

YenShield Cybersecurity Club

2023 – Present

Co-Founder

- Organized cybersecurity bootcamps, seminars, and awareness programs
- Promoted knowledge-sharing culture within student community

Hackathon Volunteer

Yenepoya University & IBM

- Coordinated logistics and participant engagement for university-level hackathon

IBM ICE Program Volunteer

- Contributed to event execution and creative design support

Certifications

- Matrix Algebra for Engineers – Coursera
- Computer Networking – Coursera
- Digital 101 Journey – NASSCOM FutureSkills
- Programming Fundamentals – Coursera
- Frontend Development using React – Coursera